

KRISHI VIGYAN KENDRA, MADHEPURA

Year of establishment of KVK: 2003

ANNUAL ACTION PLAN 2026-27

On 06-07.04.2025

Presented by :

Dr. Surendra Chaurasia

Sr. Scientist & Head

Name of host organization: Bihar Agricultural University, Sabour (Bhagalpur)

Brief information about the district

Name of Agro Climatic Zone	North East Alluvial
Longitude	86.09 ⁰ E
Latitude	26.28 ⁰ N
Temperature Maximum	35-40 ⁰ C
Temperature Minimum	07-09 ⁰ C
Geographical (ha)	17589
Total cultivable area (ha)	136646
Total Net sown area (ha)	129878
Area sown more than once (ha)	66128
Kharif sown area (ha)	102000
Rabi sown area (ha)	102000
Summer sown area (ha)	48000
Gross cropped area (ha)	196001
Cropping intensity (%)	158%
Annual Rainfall (mm)	1411
Rainy days	31 days
Total irrigated area (ha)	86000
Total rainfed area (ha)	41100
Irrigation per cent	82%
Soil type	Sandy loam soils
Upland (ha) & % of total cultivable area	11640 ha (8%)
Midland (ha) & % of total cultivable area	36375 ha (25 %)
Lowland (ha) & % of total cultivable area	94575 ha (65%)

Soil organic carbon status of the district	Average – 0.52%
Nutrient status of soil of the district	N (Low – 217.76 kg/ha)
	P (High – 26.97 Kg/ha)
	K (Medium – 139.60 Kg/ha)
Micronutrient status of soil of the district	Fe – 40.14 ppm Cu – 2.14 ppm Mn-12.95 ppm Zn – 1.17 ppm
Fertilizer consumption (Kg/ha)	443
Total Population	2,001,762
Total SC population & (%) of total population	17.3
Total ST population & (%) of total population	0.63
Male population	1,047,559
Female population	954,203
Literacy (%)	52.25
No of Tehasil	13
No of blocks	13
No of Panchayat	170
No of villages	449

Staff position

S. No.	Name od staff	Designation and discipline	Date of joining in present KVK
1	Dr. Surendra Chaurasia	Sr. Scientist & Head	12.05.2023
2	Dr. Ram Prakash Sharma	SMS (Entomology)	18.07.2014
3	Dr. Sunil Kumar	SMS (Animal Science)	20.09.2013
4	Mr. Rahul Kumar Verma	SMS (Horticulture)	10.09.2018
5	Dr. Abha Rani	SMS (Home Science)	21.02.2024
6	Mr. Mritunjay Kumar	Farm Manager	04.07.2015
7	Mr. Ratan Kumar	Assistant	12.04.2013
8	Mrs. Neha Kumari	Programme Assistant (Computer)	14.05.2013
9	Mr. Bikas Kumar	Stenographer	01.07.2015
10	Sri Santosh Kumar Diwana	Driver	18.05.2015
11	Sri Sanjay Kumar	Driver	10.06.2015

Farmers category of the district

Source of information: DAO, Madhepura

Source of year: 2024

Average land holding of the district (ha)

Name of Block	Geographical Area (ha)	Marginal Farmer (Nos.) Up to 1.0 ha	Small Farmers (Nos.) 1.0 – 2.0 ha	Semi-medium Farmers (Nos.) 2.0 – 4.0 ha	Medium Farmers (Nos.) 4.0 – 10.0 ha	Large Farmers (Nos.) 10.0 ha & Above	Total Farmers (Nos.)
Madhepura	17589	8673	6504	4336	2168	102	21783
Ghelardh		5678	4259	2839	1420	82	14278
Singheshwar		3751	2813	1875	938	76	9453
Gamhariya		2913	2185	1456	728	107	7389
Shankarpur		5076	3807	2538	1269	86	12776
Kumarkhand		13140	9855	6570	3286	151	33002
Murliganj		7985	5989	3993	1996	97	20060
Gwalpara		4036	3027	2018	1009	69	10159
Bihariganj		4558	3418	2279	1139	58	11452
Udakishunganj		8134	6101	4067	2034	105	20441
Puaini		4989	3742	2494	1247	127	12599
Aalamnagar		7964	5973	3982	1991	81	19991
Chousa		6332	4749	3166	1583	76	15830
Total no of farmers		83199	62399	41598	20800	1217	209213
% of Land holding		40.1	27.6	19.6	10	2.7	

Status of major field crops of the district

Season: Kharif			
Name of crop	Area (ha)	Production (MT)	Productivity (Q/ha)
Rice	63882	179988	28.18
Finger Millets	35	32	9.07
Seasum	28	24	8.53
Total	63945	180044	45.78
Season: Rabi			
Wheat	32103	105813	32.96
Maize	20066	195042	97.20
Rapeseed & Mustard	946	1329	14.05
Total	53115	302184	144.21
Season: Summer			
Maize	11311	61679	54.53
Moong	21830	12923	5.92
Jute	7894	18393	23.30
Total	41035	92995	83.75

Status of major horticulture crops of the district

Season: Kharif			
Name of crop	Area (ha)	Production (MT)	Productivity (Q/ha)
Brinjal	406	5425	133.61
Banana	550	4949	89.98
Total	956	10374	223.59
Season: Rabi			
Onion	205	2818	137.4
Cauliflower	1444	20109	139.26
Brinjal	162	2557	157.8
Chilli	28	16	57.4
Potato	1551	46901	302.0
Total	3390	72401	742.2
Season: Summer			
Tomato	94	889	94.54
Guava	14	19	13.59
Jackfruit	395	6879	174.16
Mango	2169	42918	197.87
Total	2672	50705	480.16

Source of information: DSE, GoB

Source of Year: 2022-23

Live stock status of the district

Name of livestock	Number
Total no. of Indigenous cattle	282349
Total no. of cross breed	162117
Total no. of Buffalo	222409
Total no. of Goat	478340
Total no. of Sheep	2509
Total no. of poultry	136850
Total no. of commercial dairy unit	Above 10 cows – 22 (5-10) cows – 52 (2-4) cows – 247
Total no. of commercial goatry unit	Above 20 goats - 160
Total no. of commercial poultry unit	Broiler (1000-5000 chicks) – 154 Layer (5000-15000 chicks) - 9

Details of Agro-Ecological situation

S. No	Name of Agro-Climatic Zone	Name of Agro-Ecological Situation	Agro-Ecological Situation features	Blocks covered
1	Zone -II	North East Alluvial Plain. The Climate of this district is sub-tropical can be classified as humid to sub humid.	Three type of topography occur in the district such as upland -generally sandy loam Medium- sandy loam to loam low land -clay loam	Upland- Madhepura, Singheshwar, Shankarpur, Gamhariya.(4) Medium- Ghelard, Kumarkham, Morliganj, Gwalpara, Udakishanpur, Bihariganj (6) low land – Purani, Alamnagar, Chausa, (3)

MAJOR PROBLEMS IDENTIFIED

- Wilting of Brinjal, Chilli & Jute.
- Occurrence of false smut. Bacterial blight, sheath blight and Yellow Stem borer in paddy.
- Attack of Fall Army worm and wilting in maize.
- Heavy infestation of weed particularly Ghurmi and lalbhutka.
- Infestation of Mealybug in mango.
- Erratic and heavy rainfall with high humidity .
- High yielding variety of moong achieving luxuriant growth causing non setting of grain due to high humidity and rainfall during crop season.
- Repeat breeding, anoestrus and skin lumpy disease are major problem of cattle.
- Migration of labour.

MAJOR THRUST AREAS

1	Climate Resilient varieties & intervention
2	Injudicious use of fertilizers
3	Weed management in crops
4	Less attention towards health issue
5	Less cultivation of high value vegetable crops (Broccoli, capsicum, Red cabbage)
6	Integrated Pest Management in different crops
7	Biological control of different diseases and pest
8	Pheromone trap with suitable chemicals for effective management of fall army worm.
9	Promotion of bio-pesticide to minimize application of chemical pesticides.
10	Seed treatment in different crops
11	Breed upgradation of cattle, poultry and goats.
12	PPR vaccine in goat

Summary of the activities to be conducted during 2026

Activity	Target	
	Number of activity	No. of farmers to be covered
OFTs	08	80
FLDs – Oilseeds (activity in ha)	-	-
FLDs – Pulses (activity in ha)	-	-
FLDs – Other than Oilseed and Pulses crops (activity in ha)	05	80
FLDs – Other than Crops (activity in no. of unit/Enterprises)	04	82
Training – Farmers and farm women	68	1850
Training – Rural Youths	16	400
Training – Extension Functionaries	10	250
Extension activities	137	20295
Seed Production (Quintal)	Paddy – 300q, Wheat – 160q, Mustard – 2q, Potato – 3q and Moong – 2q	
No. of seedling/sampling Production	12800	-
Other Bio- products – Vermicompost (q)	-	-
Live stock products (Poultry chicks – nos.)	-	-
(Fingerlings – nos.)	-	-

Activity	Target	
	Number of activity	No. of farmers to be covered
No of Soil and Water Testing in Laboratory	-	-
No of advisory through Kishan Sarathi portal	Message - 1424 Advisory - 02	66484
SAC Meeting (Date & no. of core/ official members)	Date – 16.09.2025 Core Members - 41	
Literature to be developed/ Published	10	10000
Convergence Programme / Sponsored Programme	05	500
KVK Progressive Farmers interaction	02	100
Outreach of KVK in the District (No. of blocks, no. of villages)	3 Blocks 15 villages	

Proposed OFT

OFT No: 1 (Horticulture)	Crop area of district – 444 ha, District yield – 450 Q/ha State yield – 212.05 Q/ha	
Crop	Brinjal	
Season	Pre-Rabi 2026-27 (Year)	
Problem	Low yield	
Main cause	Unavailability of suitable and wilt resistance variety of brinjal.	
Title of OFT	Assessment of wilt resistance varieties of brinjal in Madhepura district	
Farming situation	Soil – Sandy loam, Land type – Medium to Upland, Irrigated	
Thematic area	Cultivation of vegetables	
Farmer practice	FP: use of private sector variety	
Technology option selected for assessment	T01 : Sabour Krishnakali	
	T02 : Sadabahar	
	TO3: Kashi uttam	
Source of technology	BAU ,SABOUR and IIVR,Varanasi (2024)	
No. of trial	10	
Details of critical input	Seed	
Cost of individual critical input	Rs. 500 appx	
Total cost of critical input	Rs.5000 appx	
Performance indicator to be recorded	- Fruit weight (g), Fruit length (cm), Number of fruits / plant , yield (q/ha) - Cost of cultivation, Gross return, Net return, B:C ratio	

OFT No: 2 (Horticulture)		Crop area of district – 2169 ha, District yield – 197.87 Q/ha State yield – 98.2 Q/ha	
Crop	Mango		
Season	Pre-Rabi 2026-27 (2 nd Year)		
Problem	Low fruit yield		
Main cause	During the survey of the district, it was found that the farmers were facing problem of low fruit set, fruit drop and poor quality of mango fruits in terms of size and taste.		
Title of OFT	Assessment of micronutrient on Growth and yield of Mango		
Farming situation	Soil – Sandy loam, Land type – Medium to Upland, Irrigated		
Thematic area	INM		
Farmer practice	FP: Use of FYM @ no use of FYM.		
Technology option selected for assessment	T01: RDF (0.6:0.6:0.36 Kg NPK/plant/year age) + 100 g Zinc sulphate + 50g Copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar sprays of 0.2% zinc sulphate + 0.1% boric acid (at just before flowering and marble stage) T02: RDF (0.6:0.6:0.36 kg NPK/plant/year age) + 100 g zinc sulphate + 50 g copper sulphate + 50 g boric acid (soil application) in basin after harvest + 2 foliar sprays of 0.2% Zinc sulphate + 0.1% Copper sulphate + 0.1% boric acid (just before flowering and marble stage)		
Source of technology	Bihar Agricultural College, Sabour, Bhagalpur during 2020		
No. of trial	10		
Details of critical input	Chemical fertilizer		
Cost of individual critical input	Rs. 1500.00		
Total cost of critical input	Rs.15000.00		
Performance indicator to be recorded	- Fruit weight (g), Fruit length (cm), Fruit width (cm), Number of fruits / trees, Fruit yield (kg/tree) and Fruit yield (q/ha) - Cost of cultivation, Gross return, Net return, B:C ratio		

OFT No: 3 (Entomology)	Crop area of district - 63882 ha, District yield - 28.8 Q/ha State yield – 24.5 Q/ha
Crop	Paddy
Season	Kharif 2026
Main problem	Yield loss and reduction in quality of grain.
Main cause	Heavy infestation of false smut (Ustilaginoidea virens)
Title of OFT	Management of falls smut of paddy
Farming situation	Irrigated
Thematic area	Integrated Disease Management
Farmer practice	Use of fungicide carbendazim+ mancozeb @ 2 gm/ L as curative measure.
Technology option selected for assessment	TO ₀ =Farmer Practice: No use of fungicides. TO ₁ = Propiconazole 25% EC @ 1ml/litre at booting stage TO ₂ : Tebuconazole + Tryfloxistrobin 75%WG @ 0.4 g/litre at booting stage
Source of technology	ICAR-Agro Advisories for farmers 2025
No of trial	10
Detail of critical input	Propiconazole 25% EC Tebuconazole + Tryfloxistrobin 75%WG
Cost of individual critical input	Rs.800
Total cost of critical input	Rs.8000
Performance indicator to be recorded	(i) Technical indicator (Per cent Infestation, Per cent reduction, Yield (Q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio) (iii) Farmer’s perception

OFT No: 4 (Entomology)	Crop area of district – 94 ha, District yield – 94.54 Q/ha State yield – 200.9 Q/ha		
Crop	Tomato		
Season	Rabi 2026-27		
Main problem	Low yield of tomato,		
Main cause	Occurrence of wilt caused by soil borne pathogen <i>Fusarium oxysporum</i> fsp <i>lycopersicae</i> ,		
Title of OFT	Assessment of bio-intensive management practices for wilt and borer in tomato.		
Farming situation	Land type - Medium to low land , Soil type – Sandy loam, Season – Rabi, Irrigated		
Thematic area	Integrated Disease Management		
Farmer practice	Use of fungicide Carbendazim+Mancozeb @2gm/liter of water at the time of occurrence of disease		
Technology option selected for assessment	TO1		
	- Seed treatment by <i>P. fluorescens</i> @10 g/kg - Nursery bed treatment by <i>P. fluorescens</i>@20 g/ m2 - Soil application <i>P. fluorescens</i> @5 kg/ha mixed with 500 kg vermi-compost/ha at 30 days after transplanting		
	TO2		
	- Seed treatment by <i>Trichoderma viride</i> @10 g/kg - Nursery bed treatment by <i>Trichoderma viride</i> @50 g/ m2 - Soil application <i>Trichoderma viride</i> @5 kg/ha mixed with 500 kg vermi-compost/ha at 30 days after transplanting		
	TO3		
	Seed treatment with azoxystrobin 23%SC @ 2 ml/kg seed + foliar spray azoxystrobin 23%SC @ 0.5 ml/ l at 45 DAT		
Source of technology	BAU Sabour		
No of trial	10		
Detail of critical input	Seedling, Bio-fungicide.		
Cost of individual critical input	Rs. 1000		
Total cost of critical input	Rs. 10000		
	8% of the total of farm income. Will be used for the purpose of		

OFT No: 5 (Home Sci.)	Crop area of district in ha, District yield (Q/ha) State yield-796 Q/ha	
Crop/Enterprise	Nutritional security	
Season	Winter 2026-27	
Main problem	Assessment of different cereals cerelac on malnutrition among children age (2-5 year)	
Main cause	Nutritive values of locally available millets specially ragi	
Title of OFT	Value addition in Ragi and their quality evaluation	
Farming situation	Using ragi as a chapati mainly on the occasion of jitiya	
Thematic area	Women & Child care	
Farmer practice	Mother feed and cooked food	
Technology option selected for assessment	T.O I: Homemade Cerelac ready to use in food. Ragi (15%) +85% Peanut + sugar + Milk Powder for 3 months	
	T.O II: Homemade Cerelac ready to use in food. wheat (15%) + 95% Peanut + Sugar + Milk Powder for 3 months	
Source of technology	RAU, Pusa	
No of trial	10	
Detail of critical input	Ragi, Wheat, Peanut, Sugar & Milk powder	
Cost of individual critical input	1000 approx.	
Total cost of critical input	10000 approx.	
Performance indicator to be recorded	(i) Body weight (ii) BMI (iii) Acceptability	

OFT No: 6 (Home Sci.)	Crop area of district in ha, District yield (Q/ha) State yield (Q/ha)
Crop	Potato
Season	Rabi 2026-27
Main problem	Lack of proper knowledge regarding the potato flakes
Main cause	Lack of standard quality
Title of OFT	Assessment of preparation method of potato flakes for shelf lite and enhancement of income
Farming situation	Home made
Thematic area	Value addition
Farmer practice	Local people consume fresh potatoes as such as vegetables
Technology option selected for assessment	T.O I: Preparation of potato flakes formulation-Ingredients (sliced potatoes – 3-5 mm), Salt – 50 gm T.O II: Preparation of potato flakes with sour taste formulation-ingredients (Sliced potato – 3-5 mm)
Source of technology	DRPCAU, Pusa, Samastipur, Bihar
No of trial	10
Detail of critical input	Sliced potatoes – 5kg, Salt – 50 gm, water – 7.5 L, KMS – 6.0 g, Glacia Acetic acid – 50 ml
Cost of individual critical input	250
Total cost of critical input	2500
Performance indicator to be recorded	Technology observation analysis (Fried in edible refined oil) Material: Metalized polythene (200 gauge) 5,30,45,60 and 75 days at ambient condition.

OFT No:7 (Animal Sci.)	No. of Buffalo in the district - 222409, Milk Productivity of district – 4.4 lit/day Milk Productivity of state - 6-8 lit/day	
Enterprises	Buffalo	
Season	Kharif 2026	
Main problem	Delayed Puberty in buffalo heifers	
Main cause	Nutritional and hormonal imbalance of buffalo heifers	
Title of OFT	Therapeutic Management of Anoestrus in buffalo Heifers using Bypass Fat	
Farming situation	Micro Farming	
Thematic area	Disease Management	
Farmer practice	Only Deworming	
Technology option selected for assessment	T.O I: Bypass fat alone	
	T.O II: Bypass fat + Minerals for a period of 30 days	
Source of technology	College of veterinary Science, AAU, Guwahati – 781022, Assam, India (N Deka, K.C. Nath, B.N. Saikia, G.C Das, and N.C. Nath 2024. “Therapeutic Management of Anoestrus in Swamp Buffalo Heifers and cows using Bypass Fat”. Journal of Advances in Biology & Biotechnology 27 (7) : 672-682.).	
No of trial	10 animals in each group	
Detail of critical input	- Bypass fat - Mineral Mixture	
Cost of individual critical input	1000.00	
Total cost of critical input	10000.00	
Performance indicator to be recorded	(i) Reproductive performance	
	(ii) Conception rate	

OFT No: 8 (Animal Sci.)	No. of Goat in the district - 834740, Av. Body weight of growing kids in district – 7-8 kg/kids, Av. Body weight of growing kids in state -10-12 kg/kids	
Enterprises	Goat	
Season	Rabi 2026-27	
Main problem	Higher cost feed in	
Main cause	High-cost goat rearing	
Title of OFT	Assessment of inclusion of mDDGS on growth performance of kids	
Farming situation	Micro-farming	
Thematic area	Feed Management	
Farmer practice	Concentrate mixture + straw + Green fodder	
Technology option selected for assessment	T.O. I: 20% Replace Concentrate Mixture with DDGS + Straw + Green Fodder	
	T.O II: 50% Replace Concentrate Mixture with DDGS + Straw + Green Fodder	
Source of technology	BASU, Patna 2024	
No of trial	10 kids in each group	
Detail of critical input	mDDGS (Maize distiller dried grain with soluble)	
Cost of individual critical input	500.00	
Total cost of critical input	5000.00	
Performance indicator to be recorded	(i) Body weight fortnightly	
	(ii) Feed intake daily	
	(iii) Cost of feeding	

Proposed FLD

FLD No: 1 (Horticulture)	Crop area of district-205 ha, District yield 137.4 Q/ha State yield – 209.2 Q/ha		
Title of FLD	Demonstration on Kharif Onion Var. K 883		
Season & Year	Kharif 2026		
Main Problem	Low productivity of Onion		
Main cause of problem	Unavailability of suitable cultivar		
Full detail of farmer's Practice	F.P: Use of Rabi Onion Variety		
Full detail of technology to be demonstrated	K 883 (i) Yield – 300-400 quintal/ha (ii) Maturity – 90-100 Days		
Source of Technology with year	NHRDF (1988)		
Name of the Technology	Agri Found Dark Red/Arka Kalyan		
Thematic area	Cultivation of vegetable		
Name of villages	Bihariganj, Bandha, Kabiyahi, Piprahi		
Farming situation	Irrigated		
Area (ha)/Unit (No.)	0.4 ha (400 m ² unit size)	No of farmers	10
Performance indicator	(I) Technical indicator- Yield (q), Wt. of Onion(gm) (II) Economic indicator – B:C ratio (III) Farmer Feedback-		

FLD No: 2 (Horticulture)	Crop area of district in ha, District yield (Q/ha) State yield (Q/ha)		
Title of FLD	Demonstration of early cauliflower Var. Sabour Agrim		
Season & Year	Kharif 2026		
Main Problem	Farmers are generally producing Main season crop and fetch low price		
Main cause of problem	Unavailability of suitable cultivar		
Full detail of farmer's Practice	F.P: Use of local variety (Hajipur)		
Full detail of technology to be demonstrated	Cauliflower Var. Sabour Agrim		
Source of Technology with year	BAU, Sabour		
Name of the Technology	cauliflower Var. Sabour Agrim		
Thematic area	Cultivation of vegetable		
Name of villages	Bandha, Sadhua, Rampur Terasi etc.		
Farming situation	Irrigated		
Area (ha)/Unit (No.)	1 ha (1000 m ² unit size)	No of farmers	10
Performance indicator	(i) Technical indicator- Yield (q), Wt. of curd (gm) (ii) Economic indicator – B:C ratio (iii) Farmer Feedback-		

FLD No: 3 (Entomology)	Crop area of district in - 100 ha, District yield - Q/ha State yield- Q/ha		
Title of FLD	Demonstration on management of fruit fly through pheromone traps in cucurbits		
Season & Year	Kharif 2026		
Main Problem	Yield Loss and Rotting of juvenile fruit due to insect attack		
Main cause of problem	Infestation of fruit fly		
Full detail of farmer's Practice	Spraying of chemical pesticide like; super killer @1 ml/L		
Full detail of technology to be demonstrated	Fruit fly container + Lure + Hanging hooks		
Source of Technology with year	BAU, Sabour		
Name of the Technology	Management of fruit fly through pheromone trap		
Thematic area	IPM		
Name of villages	Shekhpura, Singiyan, Arajpur, Giddha etc.		
Farming situation	Irrigated		
Area (ha)/Unit (No.)	5 ha	No of farmers	20
Performance indicator	(I) Technical indicator- Yield q/ha, % Reduction in infestation (II) Economic indicator – Gross cost, Gross return, Net return & B:C ratio (III) Farmer Feedback-		

FLD No: 4 (Entomology)	Crop area of district in – 20066 ha, District yield -97.2 Q/ha State yield – 50 Q/ha		
Title of FLD	Demonstration on management of fall army worm in maize.		
Season & Year	Rabi 2026-27		
Main Problem	Low yield of maize due to damage of leaf, whorl & cob of maize crop starting from early vegetative stage		
Main cause of problem	Infestation caused by different instars of Fall army worm larvae		
Full detail of farmer's Practice	Spraying of synthetic pyrothoids like; Super killer@1ml/L		
Full detail of technology to be demonstrated	Spraying of Emamactin Benzoate 5SC@100gm/acre of water followed by Spinetoram 11.7SC 100 ml/acre		
Source of Technology with year	BAU, Sabour		
Name of the Technology	Management of fall army worm		
Thematic area	IPM		
Name of villages	Reshna, Jhitkiya, Kalotaha, Madhuban etc.		
Farming situation	Irrigated		
Area (ha)/Unit (No.)	05	No of farmers	20
Performance indicator	(I) Technical indicator- Yield q/ha, % Reduction in infestation (II) Economic indicator - Gross cost, Gross return, Net return & B:C ratio (III) Farmer Feedback-		

FLD No: 5 (Entomology)	Crop area of district – 2169 ha, District yield – 197.87 Q/ha State yield – 98.2 Q/ha		
Title of FLD	Management of Mealy bug (Drosicha mangiferae) of mango		
Season & Year	Rabi 2026-27		
Main Problem	Low yield of mango due to attack of mango mealy bug.		
Main cause of problem	Mealy bug nymphs and adults suck the sap of tender leaves and twigs . lowering the plant’s vitality. Honeydew is produced by them, which promotes the growth of sooty mold.		
Full detail of farmer's Practice	T0 (Spray of cypermethrin @ 2ml/L when nymphs appeared)		
Full detail of technology to be demonstrated	- Banding of tree trunks with polythene sheet (400-gauge, 30 cm wide) at a height of about 30 cm from the ground level and grease should be applied at the lower edge of band during the 3rd/4th week of December. - If nymphs have already started ascending the trees, spray Karate 2.5 EC (Lambda Cyhalothrin) @ 1ml/L of water during January- March as per requirements.		
Source of Technology with year	Directorate, Central institute for Subtropical Horticulture, Rehmankhera, PO Kakori, Lucknow, and NCIPM 2021.		
Name of the Technology	Management of Mango Mealy bug		
Thematic area	IPM		
Name of villages	Dhurgaon, Madhuban, Puraini etc.		
Farming situation	Rainfed/irrigated		
Area (ha)/Unit (No.)	5 ha	No of farmers	20
Performance indicator	(i) Technical indicator (Per cent Infestation, Per cent reduction, Yield (Q/ha) (ii) Economic indicator (Cost of cultivation, Gross return, Net return, B:C ratio)		

FLD No: 6 (Home Sci.)

Title of FLD	Demonstration on Oyster Mushroom (<i>Pleurotus spp.</i>)		
Season & Year	Rabi 2026-27		
Main Problem	Unavailability of chief source of protein in daily diet		
Main cause of problem	Less cultivation of pulse crop		
Full detail of farmer's Practice	Homestead		
Full detail of technology to be demonstrated	Mushroom spawn (80 Kg), Bag, Formalin (10 L) & Bavistin (40 Pkt.)		
Source of Technology with year	BAU, Sabour		
Name of the Technology	Mushroom Production		
Thematic area	Income Generation		
Name of villages	Maliya, Jayprakash Nagar, Madhepura		
Farming situation	Homestead		
Area (ha)/Unit (No.)	360 bags	No of farmers	30
Performance indicator	(I) Technical indicator- Production/Bag, Total Production (II) Economic indicator – B:C ratio (III) Farmer Feedback-		

FLD No: 7 (Home Sci.)			
Title of FLD	Establishment of Nutritional Garden		
Season & Year	Kharif/Rabi/Summer 2026-27		
Main Problem	Low nutritional diet		
Main cause of problem	Unavailability of fruit and vegetables at door step.		
Full detail of farmer's Practice	Rice, wheat, Maize, occasionally vegetable cultivation		
Full detail of technology to be demonstrated	Vegetable seed kit (including leafy vegetable seed, root vegetable seed, tuber vegetable seed, Papaya seedling, banana sucker) etc.		
Source of Technology with year	BAU, Sabour		
Name of the Technology	Establishment of Nutritional Garden		
Thematic area	Household security		
Name of villages	Maliya, Jayprakash Nagar, Madhepura		
Farming situation	Upland, Irrigated near house		
Area (ha)/Unit (No.)	30 HHs (Vegetable kit +seedling +guava, citrus, Drumstick	No of farmers	30
Performance indicator	(I) Technical indicator- Production/Kitchen Garden Total vegetable production (II) Economic indicator (III) Farmer Feedback-		

FLD No: 8 (Animal Sci.)	No. Cows in the district - 444466, Milk Productivity of district –3.13 lit/day Milk Productivity of state - 5.16 lit/day		
Title of FLD	Demonstration of double dose of GnRH for reducing incidence of post-partum anestrus in cow		
Season & Year	Kharif 2026		
Main Problem	Nutrition and hormonal imbalance of Dairy cow.		
Main cause of problem	Hormonal imbalance		
Full detail of farmer's Practice	Deworming and mineral mixture 50 gm daily.		
Full detail of technology to be demonstrated	Busereline acetate (20 mg) 5ml two dose at 14 th and 21 st day after parturition.		
Source of Technology with year	IVRI, Bareilly, U.P (2023)		
Name of the Technology	Control of post-partum anoestrus in dairy cattle.		
Thematic area	Disease Management		
Name of villages/Block	Madhepura, Gamhariya, Puraini etc.		
Farming situation	Micro Farming		
Area (ha)/Unit (No.)	15 cows	No of farmers	10
Performance indicator	(I) i. Reproductive performance (II) ii. Conception rate		

FLD No: 9 (Animal Sci.)	No. Cows in the district - 444466, Milk Productivity of district –3.13 lit/day Milk Productivity of state - 5.16 lit/day		
Title of FLD	Demonstration of supplementation of Dicalcium phosphate on milk production of straw based fed indigenous cow.		
Season & Year	Rabi 2026-27		
Main Problem	Paddy straw is main roughage of dairy animal. Paddy straw having oxalate which chelated calcium and increase requirement of calcium and in absence of calcium it also inhit carbohydrate metabolism.		
Main cause of the problem	Presence in oxalate in paddy straw		
Full detail of farmer's Practice	Paddy straw with locally available grassy fodder + 1 kg concentrate (50-50% Maize and wheat)		
Full detail of technology to be demonstrated	F.P with 30 gm DCP/day for 3 month		
Source of Technology with year	NDRI, Karnal		
Name of the Technology	Ethnoveterinary formula for milking cow.		
Thematic area	Feed Management		
Name of villages/Block	Madhepura, Kumarkhand, Singheshwar etc.		
Farming situation	Micro Farming		
Area (ha)/Unit (No.)	16 cows	No of farmers	12
Performance indicator	(I) i. Milk Yield (II) ii. Cost of milk production (III)iii. Net return (IV)iv. Day of post partum heat		

Proposed trainings

Give detail of all training for the year 2026 in the given table

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Horticulture)					
Scientific cultivation of bottle gourd	OFF	Cultivation of vegetable	01	20	January
Scientific cultivation of cucumber	ON	Cultivation of vegetable	01	19	February
Scientific cultivation of cucurbitaceous crop	OFF	Cultivation of vegetable	01	110	February
Scientific cultivation of Okra	ON	Cultivation of vegetable	01	30	February
Scientific cultivation of turmeric, processing and value-added products	OFF	Value addition	01	100	March
Scientific cultivation of Oal	ON	Cultivation of vegetable	01	25	March
Scientific cultivation of turmeric & Oal	OFF	Tuber crop & Value addition	01	25	April
Scientific cultivation of Kharif onion	OFF	Cultivation of vegetable	01	25	May
Nursery raising of early cauliflower	ON	Cultivation of vegetable	01	25	May

Continued...

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Horticulture)					
Nursery raising technique of solanaceous crop in Pro-tray	ON	Nursery raising technique	01	25	June
Scientific cultivation of brinjal	OFF	Cultivation of vegetable	01	25	July
Nursery raising of Cole crops	ON	Nursery raising	01	25	September
Scientific cultivation of cauliflower & broccoli	OFF	Cultivation of vegetable	01	25	October
Scientific cultivation of potato	ON	Tuber crop	01	25	October
Nursery raising technique of cucurbitaceous seed under poly tunnel	ON	Protected cultivation	01	25	November
Scientific cultivation of onion	OFF	Cultivation of vegetable	01	25	December
Total			16	554	

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Entomology)					
Management of aphid in mustard crop	Off	IPM	01	24	Jan
Management of insect pest in Rabi Maize	Off	IPM	01	25	Jan
Management of FAW in maize	On	IPM	01	25	Feb
Management of Shoot & Fruit borer in brinjal	Off	IPM	01	25	Feb
Management of mango mealy bug	Off	IPM	01	25	March
Management of fruit fly in cucurbits	On	IPM	01	25	March
Control of store grain pests	OFF	Integrated Pest Management	01	25	April
Management of pest & disease in summer vegetable crops.	OFF	Integrated Pest Management	01	25	April
Seed Treatment in Paddy	ON	IPM	01	25	May
Disease management in paddy	ON	Integrated Disease Management	04	25	June
Insect pest management in paddy crop	ON	Integrated Pest Management	02	25	June
Insect pest management in kharif maize	OFF	IPM	01	25	July

Continued...

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Entomology)					
Management of fruits & shoot borer in brinjal	OFF	Integrated Pest Management	01	25	August
Management of sheath blight in paddy	ON	IPM	01	25	September
Seed treatment with suitable fungicide in rabi crops	OFF	Integrated Disease Management	02	25	October
Management of cucurbits fruit fly	ON	Integrated Pest Management	01	25	October
Management of disease & insect pest in mango	OFF	Integrated Pest Management	02	25	Nov
Production of neem-based pesticides	OFF	Production of bio control agent & bio- pesticides	02	25	Dec
Total			25	449	

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Home Sci.)					
Preparation of mixed pickle	ON	Value addition	02	25	January
Preparation of high nutrient efficient diet	Off	Design and development of high nutrient efficient diet	01	25	January
Preparation of high nutrient efficient diet	Off	Design and development of high nutrient efficient diet	01	22	February
Preparation of herbal gulal	On	Income generation	01	25	February
Preparation of seasonal vegetable	Off	Value addition	01	25	March
Role of micronutrient in human diet	ON	Household food security	01	25	March
Importance of Ragi and its products use in day-to-day life	Off	Women and child care	2	25	April
Role of micronutrient in human diet	On	Household food security	1	25	May
Scientific preparation and cultivation of nutritional garden	Off	Household food security	1	25	May
Preparation of aam Papad	On	Value Addition	2	25	June

Continued...

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Home Sci.)					
Preservation of value-added product of mango	Off	Value addition	1	25	June
Preparation of guava jam	On	Value addition	1	25	July
Scientific preparation and cultivation of nutritional garden	Off	House hold food security	1	25	July
Techniques of Mushroom cultivation & post-harvest management	ON	Income generation	2	25	August
Processing and value-added product of guava	Off	Value addition	1	25	August
Food adulteration and prevention	Off	Household food security	1	25	October
Preparation of mix pickles	ON	Value addition	2	25	November
Preparation of mix vegetable pickles	ON	Value addition	2	25	December
Total			24	447	

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Animal Sci.)					
Feeding Management of Dairy animal	OFF	Feeding Management	1	25	January
Common disease of cattle and buffalo and their treatment & vaccination	Off	Disease Management	1	25	February
Common disease of goat and their treatment and vaccination	Off	Disease Management	1	25	March
Backyard Poultry Farming	ON	Poultry Farming	1	25	March
Feeding Management of Goat	ON	Feeding Management	1	25	March
Management of dairy animal	Off	Dairy Management	1	25	April
Scientific goat farming	On	Goat rearing	2	25	May
Fodder production Technology for Kharif season	Off	Feeding Management	1	25	May
Common disease of cattle and buffalo and their treatment & vaccination	Off	Disease Management	1	25	June
Feeding Management of dairy animal	On	Feeding Management	1	25	July

Continued...

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Farmers and Farm Women training(Animal Sci.)					
Important disease of goat & their treatment & vaccination	Off	Disease Management	1	25	August
Care & Management in poultry farming	On	Poultry Farming	1	25	September
Backyard poultry farming	Off	Poultry Farming	1	25	October
Fodder production & their conservation technique	Off	Feeding Management	1	25	November
Management of dairy animal	Off	Dairy Management	1	25	December
Fodder production & their conservation technique	Off	Feeding Management	1	25	December
Total			17	400	

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Rural Youth training (Horticulture)					
Plant Propagation technique	ON	Plant Propagation technique	05	25	June
Protected cultivation of high value vegetable and fruit crops	ON	Protected cultivation	05	25	October
Nursery raising technique of cucurbitaceous crop under Poly low tunnel	ON	Protected cultivation	05	25	December
		Total	15	75	
Rural Youth training (Entomology)					
Preparation of Neem based indigenous pesticides	ON	IPM	03	25	June
Technique of Mushroom Production	ON	Mushroom Production	05	25	September
Bee Keeping	ON	Bee Keeping	06	25	November
		Total	14	75	
Rural Youth training (Home Sci.)					
Preparation of Moong Dal bari	ON	Enterprises Development and Income generation	05	25	April
Techniques of Mushroom cultivation	ON	Mushroom Production	05	25	September
Post harvest management of seasonal vegetables	ON	Post harvest	05	25	Dec
		Total	15	75	

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Rural Youth training (Animal Sci.)					
Dairy Management	ON	Dairying	5	25	January
Goat rearing	ON	Goat rearing	5	25	February
Poultry Farming	ON	Poultry Farming	5	25	April
Goat rearing	ON	Goat rearing	5	25	May
Fish Production Technique	ON	Fish Farming	4	25	June
Dairy Management	ON	Dairy Management	5	25	August
Goat farming	ON	Goat rearing	5	25	October
		Total	34	175	

Detail of training programme

Title of training programme	Venue	Thematic Area	Duration (Days)	Participant (No.)	Month
Extension functionaries training(Horticulture)					
Protected cultivation of fruit & vegetables	ON	Protected cultivation	01	25	June
Nursery raising technique of cucurbitaceous crop under poly tunnel	ON	Nursery raising technique	01	25	December
Extension functionaries training(Entomology)					
IPM in Kharif Crops	ON	Integrated Pest Management	01	25	June
IDM in Kharif crops	ON	Integrated Disease Management	01	25	July
IPM in Rabi crops	ON	Integrated Pest Management	01	25	August
IDM in Rabi Crops	ON	Integrated Disease Management	01	25	September
Extension functionaries training(Home Sci.)					
Vegetable production in Kitchen gardening throughout the year	ON	Nutritional security	01	25	June
Balance diet for women and children	ON	Women & child care	01	25	September
Extension functionaries training(Animal Sci.)					
Management of Dairy farm animal	ON	Dairy Management	01	25	July
Fodder production Technology in Rabi season	ON	Feeding Management	01	25	November

Proposed extension activities

Details of extension activities

Name of activity	No.	No. of farmers	Quarter wise details of activities to be conducted			
			Q1	Q2	Q3	Q4
Field day	05	250	0	2	1	2
Kisan Mela	04	4506	0	1	1	2
Kishan Ghosthi	12	904	3	3	3	3
Exhibition	03	2706	1	1	1	0
Ex-trainees sammelan	02	1804	0	1	1	0
Special day celebration	10	9005	2	3	3	2
Animal health camp	05	250	2	1	1	1
Soil test camp	1	100	1	0	0	0
Soil health camp	8	200	2	2	2	2
SHG conveners meeting	05	277	1	1	1	2
Farmer Scientist interaction	02	60	1	0	1	0
Scientist visit to farmers field	80	233	20	20	20	20
Total	137	20295	33	35	35	34

Detail of quality seed production programme

S. No.	Season	Name of crops	Name of varieties	Area (ha) to be covered	Category of seed to be produced
01	Summer 2026	Moong	Shikha	2.0	T/L
		Total		2.0	
02	Kharif 2026	Paddy	R.M 1	4.0	C/S
03	Kharif 2026	Paddy	S.Sona	4.0	C/S
04	Kharif 2026	Paddy	S.Mansuri	2.0	C/S
		Total		10.0	
05	Rabi 2026-27	Wheat	HD 2967	8.0	C/S
06	Rabi 2026-27	Mustard	RH 725	1.0	C/S
07	Rabi 2026-27	Potato	Yusi Map	1.0	T/L

Detail of quality seedling/ sampling production programme

S. No.	Season	Name of vegetable/fruit	Name of varieties	No of seedling/ sampling to be prepared
1.	Kharif	Mango	Malda Amrapali Bombay green Gulab Khas Mallika	Grafted 500 samplings
2.	Rabi	Dragon fruit	Roza	500 cuttings
3.	Kharif	Guava	Allahabad Safeda	100 Plants
4.	Rabi & Kharif	Tomato Brinjal Cauliflower Brocoli Cabbage Bottle gourd Ridge gourd	Hybrid Hybrid Hybrid Fantasy Golden acre Arka Bahar/Shivani Hybrid	3000 3000 2500 1000 2000 100 100
		Total		12800

Detail of any other special activity or programme

- PM live telecast as per guideline.
- PM Kisan samman Nidhi live telecast.
- International women's day.
- International Yoga day.
- Parthenium awareness programme.
- Swachhta Pakhwada.
- Malnutrition eradication Programme.
- Tree Plantation programme.
- World Soil day.
- Kisan Diwas Programme.

Thank
you